

# 4-Chlorobenzoic acid, pentyl ester

<b>Other names:</b>	Pentyl 4-chlorobenzoate
<b>Inchi:</b>	InChI=1S/C12H15ClO2/c1-2-3-4-9-15-12(14)10-5-7-11(13)8-6-10/h5-8H,2-4,9H2,1H3
<b>InchiKey:</b>	APVFEMBQOQUREJ-UHFFFAOYSA-N
<b>Formula:</b>	C12H15ClO2
<b>SMILES:</b>	CCCCCOC(=O)c1ccc(Cl)cc1
<b>Mol. weight [g/mol]:</b>	226.70
<b>CAS:</b>	97222-04-3

## Physical Properties

Property code	Value	Unit	Source
gf	-92.91	kJ/mol	Joback Method
hf	-326.49	kJ/mol	Joback Method
hfus	27.47	kJ/mol	Joback Method
hvap	58.79	kJ/mol	Joback Method
log10ws	-4.07		Crippen Method
logp	3.687		Crippen Method
mcvol	175.860	ml/mol	McGowan Method
pc	2391.19	kPa	Joback Method
ripol	1621.00		NIST Webbook
ripol	1628.00		NIST Webbook
ripol	1616.00		NIST Webbook
ripol	1626.00		NIST Webbook
ripol	1635.00		NIST Webbook
ripol	1616.00		NIST Webbook
ripol	1610.00		NIST Webbook
ripol	2158.00		NIST Webbook
ripol	2141.00		NIST Webbook
ripol	2162.00		NIST Webbook
ripol	2170.00		NIST Webbook
ripol	2198.00		NIST Webbook
ripol	2162.00		NIST Webbook
ripol	2124.00		NIST Webbook
tb	619.34	K	Joback Method
tc	830.22	K	Joback Method
tf	366.02	K	Joback Method
vc	0.672	m <sup>3</sup> /kmol	Joback Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	421.33	J/molxK	619.34	Joback Method
cpg	483.41	J/molxK	795.07	Joback Method
cpg	472.56	J/molxK	759.93	Joback Method
cpg	460.94	J/molxK	724.78	Joback Method
cpg	448.54	J/molxK	689.63	Joback Method
cpg	435.34	J/molxK	654.49	Joback Method
cpg	493.53	J/molxK	830.22	Joback Method
dvisc	0.0001735	Paxs	619.34	Joback Method
dvisc	0.0002188	Paxs	577.12	Joback Method
dvisc	0.0002861	Paxs	534.90	Joback Method
dvisc	0.0003918	Paxs	492.68	Joback Method
dvisc	0.0005690	Paxs	450.46	Joback Method
dvisc	0.0008929	Paxs	408.24	Joback Method
dvisc	0.0015544	Paxs	366.02	Joback Method

## Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C97222043&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C97222043&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions

<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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